



C.I.F

SAFETY DATA SHEET

CP0860 v2.2 RS 160-8740

RS REACH revision date 01/01/12

July 2011

FDS 11.07

1. Identification of the chemical product

SYNONYMS & TRADE NAMES:

CLEANER FOR FERRIC CHLORID Ref : AR36

Company: CIF

11 rue Charles Michels

92220 BAGNEUX

Tél : 01.45.47.48.00 – Fax : 01.45.47.16.14

E-mail : cif@cif.fr – Web : www.cif.fr

Supplied by:

RS Components Ltd,

Birchington Road, Corby, Northants, NN17 9RS.

Tel: +44 (0) 1536 402888 (8am to 8pm)

Email: technical.help@rs-components.com

2. Identification of the hazards

Harmful by inhalation ! Irritant to the eyes, the respiratory and the skin.

Can cause sensitization by inhalation and contact with the skin.

INHALATION RISK:

vaporation at 20°C is negligible ; a harmful concentration of airborne particles can, however, be reached quickly if powdered.

3. Informations on the components

Acid dihydrate powder [99%]

Xn Symbol

R : 21/22

ICSC 0529 / CAS 144-62-7 / RTECS. R02450000 / [INDEX Nr.] 607.006.00.8

4. Description of the first aid measures to be taken in the event of an emergency

Exposure : Avoid all contact !

In all cases consult a doctor !

Inhalation:

Acute hazards / Symptoms : Sore throat. Cough. Burning sensation. Shortness of breath. Laboured breathing. Symptoms may be delayed (see notes).

Prevention : Local exhaust or breathing protection.

First aid / Fire fighting : Fresh air, rest. Half-upright position. Artificial respiration if indicated. Refer for medical attention.

Skin:

Acute hazards / Symptoms : Redness. Skin burns. Pain. Blisters.

Prevention : Protective clothing.

First aid / Fire fighting : First rinse with plenty of water, then remove contaminated clothes and rinse again. Refer for medical attention.

Eyes:

Acute hazards / Symptoms : Redness. Pain. Loss of vision. Severe deep burns.

Prevention : Face shield, or eye protection in combination with breathing protection if powder.

First aid / Fire fighting : First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

Ingestion:

Acute hazards / Symptoms : Sore throat. Burning sensation. Abdominal pain. Vomiting. Drowsiness. Shock or collapse. Convulsions.

Prevention : Do not eat, drink, or smoke during work. Wash hands before eating.

First aid / Fire fighting : Rinse mouth. Rest. Refer for medical attention.

CP0860 v2.2 RS 160-8740

5. Fire control measures

Combustible. Gives off irritating or toxic fumes (or gases) in a fire.

Prevention : NO open flames.

First Aid / Fire Fighting : Powder, alcohol-resistant foam, waterspray, carbon dioxide. In case of fire : keep drums, etc., cool by spraying with water.

6. Measures to be taken in the event of accidental spillage

Sweep spilled substance into plastic containers ; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. (Extra personal protection : P2 filter respirator for harmful particles).

PERSONAL PROTECTION & SANITATION :

S 26 : in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 : Wear suitable gloves and eye protection.

S 45 : In case of accident or if you fell unwell, seek medical advice immediately (show the label where possible).

- Noxious for skin contact and ingestion. Wear gloves.
- Keep out of the reach of children.
- Avoid contact with skin and eyes. Wear glasses

7. Precautions for storage, use and handling

Separated from strong oxidants, food and feedstuffs. Dry.

8. Procedures for monitoring the exposure of operatives and characteristics of the personal protection equipment

Chemical Dangers :

On contact with hot surfaces or flames this substance decomposes forming formic acid and carbon monoxide. The solution in water is a medium strong acid. Reacts violently with strong oxidants causing fire and explosion hazard. Reacts with some silver compounds to form explosive silver oxalate.

Occupational Exposure Limits :

TLV : ppm ; 1 mg/m³ ; 2 mg/m³ (STEL) (ACGIH 1995-1996).

OSHA PEL : TWA 1mg/m³

NIOSH REL : TWA 1 mg/m³ ST 2 mg/m³

NIOSH IDLH : 500 mg/m³

Effects of Short-Term Exposure :

Corrosive. The substance is corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion. Inhalation of aerosol may cause effects on the kidneys. Exposure far above the OEL may result in death. Medical observation is indicated.

Effects of Long-Term or Repeated Exposure :

Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the kidneys, resulting in stones.

9. Physicochemical properties

Molecular mass : 90.04

Physical State ; Appearance : Colourless crystals or white powder.

Physical Properties : Sublimation point : 157°C
 Melting point (decomposes) : 189.5°C
 Relative density (water = 1) : 1.9
 Solubility in water : moderate
 Octanol / water partition coefficient as log
 Pow : -0.7 (estimated)

Physical Description : Colorless, odorless powder or granular solid. [Note : The anhydrous form (COOH)₂ is an odorless, white solid.]

CP0860 v2.2 RS 160-8740

10. Stability of the product and reactivity

Incompatibilities & Reactivities :

Strong oxidizers, silver compounds, strong alkalis, chlorites [Note : Gives off water of crystallization at 215°F and begins to sublime.]

11. Toxicological information

Up to 25 mg/m³ : (APF = 25) Any supplied-air respirator operated in a continuous-flow mode^E / (APF = 25) Any powered, air-purifying respirator with a dust and mist filter.

Up to 50 mg/m³ : (APF = 50) Any air-purifying, full-facepiece respirator with a high-efficiency particulate filter.

(APF = 50) Any self-contained breathing apparatus with a full facepiece.

(APF = 50) Any supplied-air respirator with a full facepiece.

Up to 500 mg/m³ : (APF = 2000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Emergency or planned entry into unknown concentrations or IDLH conditions : (APF = 10,000). Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus.

Escape : (APF = 50) Any air-purifying, full-facepiece respirator with a high-efficiency particulate filter. Any appropriate escape-type, self-contained breathing apparatus.

12. Ecotoxicological information

Environmental data

Product fate is highly depending on environmental conditions : PH, Temperature, oxidoreductive potential, mineral and organic content of the medium...

Harmful for aquatic organisms.

Behaviour in wastewater treatment plants : No inhibition of activity of waste water bacteria after neutralisation water pollution class : 1 (WGK).

13. Information regarding the possibility of disposal of the waste

PROHIBITION: Do not discard down the drain.

- Remove the waste to an authorized incineration center, according to the laws in force.
- Remove empty containers to an authorized society.

14. Transportation regulations

Do not transport with food and feedstuffs.

15. Regulatory information

Labelling as required by the Chemicals Regulations 1998 and corresponding to EC directives.

Symbol : Xn , hazard description = harmful

Oxalic acid dihydrate

R 21/22 : Harmful in contact with skin.

S 2 : Keep out of the reach of children.

S 24/25 : Avoid contact with skin and eyes.

S 26 : in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 : Wear suitable gloves and eye protection.

S 45 : In case of accident or if you fell unwell, seek medical advice immediately (show the label where possible).

- Noxious for skin contact and ingestion. Wear gloves.
- Keep out of the reach of children.
- Avoid contact with skin and eyes. Wear glasses

16. Other information

This form supplements the technical instructions use but doesn't replace it.

The content of the information is based on the state of our knowledge and on the main legislatives and statutory texts concerning the product, and promulgated according to the date of conception of the document.